

**BIOLOGY(Master)**

Teacher: Michael Kietzman

<b>Content</b>	<b>Skills</b>	<b>Assessment</b>
<p><b>A. Introduction to Biology</b>                      -branches of biology                      -scientific method                      -microscopes</p>	<p><b>A. Introduction to Biology</b>                      A1.define the major branches of biology                      A2.explain seven steps of scientific method                      A3.identify parts and functions of microscopes, apply during use of scopes in lab</p>	<p><b>A. Introduction to Biology</b>                      A1.worksheet, multiple choice quiz, multiple choice test.                      A2.worksheet, short answer test                      A3.demonstrate ability to use during labs, identify and label worksheet, short answer test, true/false test</p>
<p><b>A. Characteristics of Living Things</b>                      -spontaneous generation and biogenesis                      -characteristics of life                      -cell theory</p> <p><b>B. Classes of Organic Compounds</b>                      -carbohydrates                      -lipids                      -proteins</p>	<p><b>A. Characteristics of Living Things</b>                      A1.explain differences between the two theories and describe experiments of Redi, Newlands, Spallanzani, and Pasteur                      A2.identify ten characteristics of living things                      A3.restate the three points of the cell theory and identify contributions of biologists to its development</p> <p><b>B. Classes of Organic Compounds</b>                      B1.identify examples of monosaccharides,disaccharides, and polysaccharides and their uses in living organisms, and describe their formation                      B2.identify differences between fats, oils, and waxes and their uses and formation                      B3.describe how amino acids form proteins, and identify differences between structural proteins and enzymes and their uses</p>	<p><b>A. Characteristics of Living Things</b>                      A1.worksheets,text questions,matching test, short answer test.                      A2.worksheet, text questions, matching and multiple choice test.                      A3.worksheet, text questions, multiple choice test , short answer test.</p> <p><b>B. Classes of Organic Compounds</b>                      B1.,B2.,B3.worksheet, text questions,lab questions,matching quiz, multiple choice quiz.</p>
<p><b>C. Cell Structures and Functions</b>                      -nucleus                      -organelles                      -cell membrane                      -plant vs. animal cells</p>	<p><b>C. Cell Structures and Functions</b>                      C1.explain the importance of the nucleus to a cell and compare the differences between prokaryotic cells and eukaryotic cells                      C2.locate structures of and state functions</p>	<p><b>C. Cell Structures and Functions</b>                      C1.,C2.,C3.,C4. worksheets, microscope lab questions and drawings, text questions,matching quiz, matching test, multiple choice test, completion quiz, completion test, short answer test.</p>